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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	)
Briggs and Tatum	) ) Examiner:
Serial No.	) ) Group Art Unit:
Filed: December 15, 1998	) Atty. Dkt. No. 00295.77957
For: CONSTRUCTION OF PASTEURELLA HA	AEMOLYTICA VACCINES

# PRELIMINARY AMENDMENT

The Honorable Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

If any fees are needed to enter this amendment, please charge our Deposit Account No. 19-0733.

# IN THE SPECIFICATION

Page 1, between lines 1 and 2, insert the following:

This application is a continuation of U.S. Serial No. 08/643,299, filed May 8, 1996, which is a divisional application of U.S. Serial No. 08/162,392, filed December 6, 1993.

## IN THE CLAIMS

Please cancel claims 1-33.

Please add the following new claims:

--34. A vaccine for *P. haemalytica* which comprises an *aroA* mutation introduced into *P*. haemolytica using methylated DNA which is administered by intranasal, intratracheal, intramuscular, subcutaneous, intravenous, or oral routes.

35. The vaccine of claim 34 containing an adjuvant.

